

EXHIBIT 12 – COMPREHENSIVE TECHNICAL EXHIBIT

Applicant proposes an increase in Effective Radiated Power only.

LACK OF CONTOUR OVERLAP

The following Channel Study (**Figure 1**) reveals the lack of any contour overlap with all relevant 1st, 2nd, 3rd adjacent, and I.F. frequencies.

K285FX Minor Modification - Power Increase Minn-iowa Christian Broadcasting, Inc.											
REFERENCE		CH# 285D - 104.9 MHz, Pwr= 0.25 kW, HAAT= 62.7 M, COR= 366 M								DISPLAY DATES	
44 25 52.4 N. 94 31 54.4 W.		Average Protected F(50-50)= 7.1 km Omni-directional								DATA 03-14-16 SEARCH 03-14-16	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
285D New Ulm	K285FX!	LIC	C MN	0.0 0.0	0.00 BLFT20150831ACJ	44 25 52.4 94 31 54.4	0.070	22.1 366	6.6 Minn-iowa Christian Broadc	-31.4	-37.2
284C St. Cloud	KCLD-FM	LIC	CN MN	0.7 180.7	126.34 BLH19910913KCB	45 34 03.0 94 30 43.0	100.000 300	105.9 658	73.1 Leighton Enterprises, Inc.	11.1	40.3
286C2 Tracy	KARL	LIC	NCX MN	264.2 83.2	107.14 BMLH20080813ADU	44 19 32.0 95 52 19.0	45.000 153	83.2 594	56.4 Kmh1 Broadcasting Company	12.3	34.6
286D Glencoe	K286AU	LIC	C MN	17.5 197.6	36.42 BLFT20070601BRU	44 44 37.0 94 23 36.0	0.115 89	14.2 407	10.1 Minnesota Public Radio	12.9	13.2
283C2 Blue Earth	KJLY	LIC	CX MN	146.4 326.7	69.36 BMLE20091008ABL	43 54 38.0 94 03 09.0	50.000 150	6.1 461	53.4 Minn-iowa Christian Broadc	51.1	14.8
285C3 Spencer	KMRR	LIC	CN IA	201.3 20.8	136.32 BLH19970508KE	43 17 13.0 95 08 34.0	25.000 85	110.2 521	35.5 Saga Communications Of Iow	15.1	62.5
288C3 St. Peter	KRBI-FM	LIC	NCX MN	126.2 306.5	48.60 BLH20100614AQT	44 10 20.0 94 02 23.0	25.000 68	3.2 354	29.8 Dignity 3e License, LLC	34.9	16.0
285A Owatonna	KRFO-FM	LIC	NCX MN	109.8 290.7	114.74 BMLH20131203AFP	44 04 26.0 93 10 48.0	4.700 53	78.0 424	23.4 Townsquare Media Faribault	26.9	59.1
286D Mankato	K286AW	LIC	C MN	127.1 307.5	53.06 BLFT20091217ACV	44 08 31.0 94 00 05.0	0.010 75	8.0 364	4.9 Minnesota Public Radio	34.5	32.8
231A Eagle Lake	KXLP	LIC	NCX MN	127.1 307.5	53.15 BLH20100326ACA	44 08 31.0 94 00 05.0	3.700 121	110.9 413	74.1 Minnesota Valley Broadcast	9.5R	43.7M
231A Eagle Lake	AL8441	RSV-A	MN	116.7 297.1	54.98 RM11325	44 12 29.0 93 55 00.0	6.000 100	110.9 397	74.1	9.5R	45.5M
231A Atwater	KKLN	LIC	C MN	346.2 166.0	73.51 BLH20000824AAA	45 04 24.0 94 45 19.0	6.000 100	110.9 458	74.1 Headwaters Media, LLC	9.5R	64.0M
286A Lakeville	WGVX	LIC	NCN MN	74.2 255.1	113.45 BLH19960507KA	44 42 05.0 93 09 02.0	2.600 152	39.5 440	26.0 Radio License Holdings LLC	64.1	73.7
232A Windom	KDOM-FM	LIC	CN MN	220.7 40.3	79.94 BLH19920130KB	43 53 06.0 95 10 56.0	5.700 102	110.9 537	74.1 Windom Radio, Inc.	9.5R	70.4M
288A Montevideo	KMGM	LIC	CN MN	299.0 118.2	98.87 BLH19821019AP	44 51 24.0 95 37 46.0	3.000 90	2.3 398	23.7 Iowa City Broadcasting Com	86.7	72.4
285C3 Balsam Lake	WLMX-FM	LIC	CN WI	56.6 238.2	218.51 BLH19970224KB	45 29 27.0 92 11 32.0	22.000 106	115.2 479	41.8 Red Rock Radio Corp.	93.6	144.0

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM. In & Out distances between contours are shown at closest points. Reference Zone= West Zone, Co to 3rd adjacent. All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected. Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X) "I" affixed to 'IN' or 'OUT' values = site inside restricted contour. « = Station meets FCC minimum distance spacing for its class.

Facility being modified.

Figure 1

ENVIRONMENTAL COMPLIANCE

There will be no new construction. The instant application is for an increase in Effective Radiated Power only. The antenna is side-mounted on an existing structure at an existing communications site.

FMModel returns a maximum of 0.911 uW/cm^2 at 32 meters from the tower using the 2 bay, 1 wavelength spaced Shively 6812 antenna. This is well below both the controlled and uncontrolled limits for rfr exposure.